

IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

APPLICATION FOR
UNITED STATES UTILITY PATENT

AIR SYSTEMS FOR VEHICLES

Extra Set Claims - 1 - 20 - For PTO Examiner

INVENTOR
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CLAIMS:

1 1. A vehicle comprising
2 a vehicle body,
3 rotatable apparatus connected to the vehicle body
4 for movement of the vehicle, and
5 an air system connected to the vehicle, the air
6 system for directing a flow of air at the rear of a head of a
7 person occupying the vehicle.

1 2. The vehicle of claim 1 further comprising
2 a power supply for the air system.
3 the at least one fan is two spaced-apart fans.

1 3. The vehicle of claim 1 wherein the power supply is
2 portable.

1 4. The vehicle of claim 1 further comprising
2 the air system comprising at least one fan apparatus
3 positionable behind the person occupying the vehicle.

1 5. The vehicle of claim 4 wherein the at least one fan is
2 two spaced-apart fans.

1 6. The vehicle of claim 5 wherein the vehicle has a roof and
2 a space beneath the roof and wherein the two spaced-apart fans are
3 positioned for directing air into the space beneath the roof to
4 dissipate hot air beneath the roof.

1 7. The vehicle of claim 6 wherein air flows from each fan
2 intersect creating an area of turbulent air flow beneath the roof.

1 8. The vehicle of claim 1 wherein the vehicle has a driver
2 having a head and the air system comprises a fan positioned behind
3 the driver, the fan positioned for directing an air flow at a rear
4 of the driver's head and neck.

1 9. The vehicle of claim 1 wherein the vehicle has two
2 occupants and the air system comprises two spaced-apart fans, a
3 first one of the spaced-apart fans for directing a flow of air at
4 a first of the two occupants and a second one of the spaced-apart
5 fans for directing a flow of air at a second of the two occupants.

1 10. The vehicle of claim 1 wherein the vehicle has a roof and
2 the roof has at least one elongated opening therethrough, the at
3 least one elongated opening extending in an opening direction along
4 the roof,

5 the air system further comprising at least one fan
6 mounted to the vehicle beneath the roof for directing a flow
7 of air in the direction of the opening direction.

1 11. The vehicle of claim 10 wherein the at least one fan is
2 a plurality of spaced-apart fans.

1 12. The vehicle of claim 1 further comprising
2 roof mount structure on the vehicle body,
3 a roof on the roof mount structure, and
4 at least part of the roof made of insulating
5 material.

1 13. A vehicle comprising
2 a vehicle body,
3 rotatable apparatus connected to the vehicle body
4 for movement of the vehicle,
5 roof mount structure on the vehicle body,
6 a roof on the roof mount structure, and
7 an air system connected to the vehicle for directing
8 a flow of air to an area beneath the roof for dissipating hot
9 air beneath the roof.

1 14. The vehicle of claim 13 wherein the air system comprises
2 at least one fan.

1 15. The vehicle of claim 14 wherein the at least one fan is
2 two spaced-apart fans and air flows from each fan intersect
3 creating an area of turbulent air flow beneath the roof.

1 16. The vehicle of claim 13 wherein the vehicle has a roof
2 and the roof has at least one elongated opening therethrough, the
3 at least one elongated opening extending in an opening direction
4 along the roof,

5 the air system further comprising at least one fan

6 mounted to the vehicle beneath the roof for directing a flow
7 of air in the direction of the opening direction.

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1 17. The vehicle of claim 13 wherein the air system directs
2 a flow of air at the rear of a head of a person occupying the
3 vehicle.

1 18. The vehicle of claim 1 further comprising
2 a power supply for the air system.

1 19. A method for cooling a a person occupying a vehicle, the
2 vehicle comprising a vehicle body, rotatable apparatus connected
3 to the vehicle body for movement of the vehicle, and an air system
4 connected to the vehicle, the air system for directing a flow of
5 air at a rear of a head of the person occupying the vehicle, the
6 method comprising

7 flowing air from the air system at the rear of the
8 head of the person occupying the vehicle.

1 20. A method for dissipating heat from a space beneath a roof
2 of a vehicle, the vehicle comprising a vehicle body, rotatable
3 apparatus connected to the vehicle body for movement of the
4 vehicle, roof mount structure on the vehicle body, a roof on the
5 roof mount structure, and an air system connected to the vehicle
6 for directing a flow of air to a space beneath the roof for
7 dissipating hot air beneath the roof, the method comprising

8 flowing air from the air system into the space
9 beneath the roof to dissipate hot air in said space.

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Extra Set Drawings - 2 Sheets - For PTO Examiner

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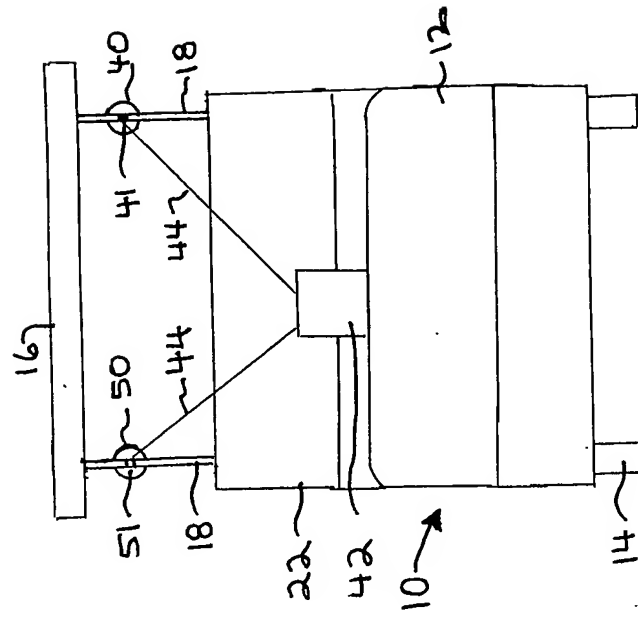


Fig. 1A

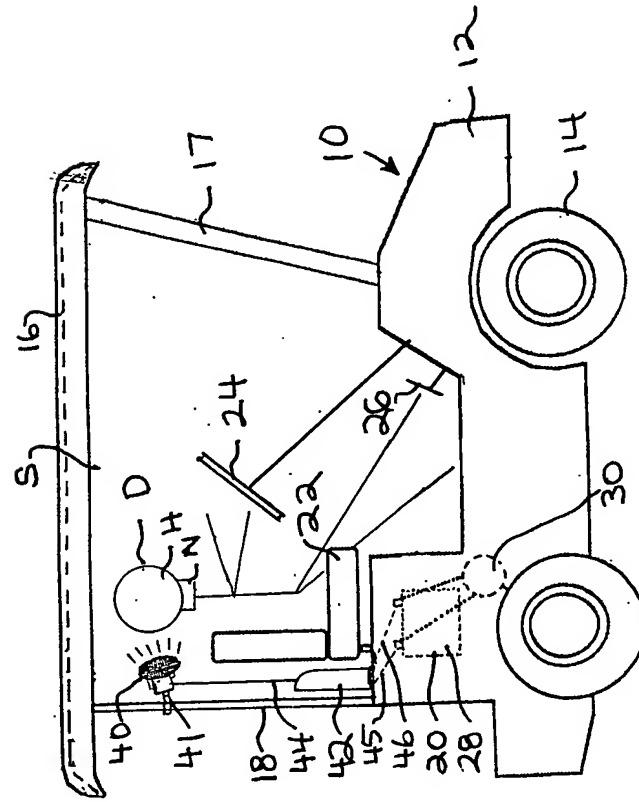


Fig. 1B

